

Amendments to the Claims:

1 – 11 (canceled)

12. (currently amended) A heat exchanger tube, comprising:

a tube through which a cooling medium flows, having an outside surface ~~exposed to a steam medium~~ and an inside surface, the inside surface comprising an uppermost portion that encompasses an uppermost position of the tube when the tube is oriented for operation, and a non-uppermost portion located remote from the uppermost portion, ~~exposed to a cooling medium;~~

a first layer arranged on the outside surface of the tube for reducing an adhesion of ~~the a steam medium to the tube outer surface~~; and

a second toxically acting layer arranged on a non-uppermost portion of the inside surface of the tube, but not arranged on the uppermost portion of the inside surface of the tube, wherein the toxically acting layer reduces formation and growth of organic substances on the non-uppermost portion of the inside surface of the tube through a toxic effect on organic substances, ~~and wherein the portion of the inside surface of the tube is located remote from an uppermost portion of the inside surface of the tube when the tube is oriented for operation.~~

13. (previously presented) The heat exchanger tube as claimed in claim 12, wherein the first layer or the second layer are formed by a plurality of sub-layers.

14. (canceled)

15. (canceled)

16. (currently amended) A power plant heat exchanger, comprising:

a plurality of heat exchanger tubes that route a cooling medium, having an outside surface and an inside surface, the inside surface comprising an uppermost portion that encompasses an uppermost position of the tube when the tube is oriented for operation, and a non-uppermost portion location remote from the uppermost portion, that rout a cooling medium along the inside surface of the tube wherein:

a first layer is arranged on the outside surface of the tube for reducing an adhesion of the steam medium ~~to the tube outer surface~~, and

a second toxically acting layer ~~is arranged on a~~ limited to covering the non-uppermost portion of the inside surface of the tube, wherein the toxically acting layer reduces formation and growth of organic substances on the non-uppermost portion of the inside surface of the tube through a toxic effect on organic substances, ~~and wherein the portion of the inside surface of the tube is located remote from an upper most portion of the inside surface of the tube when the tube is oriented for operation;~~ and

a steam medium routing configured to rout a steam medium upon the outside surface of the heat exchanger tube.

17. (currently amended) The heat exchanger as claimed in claim 16, wherein the heat exchanger tube is a longitudinally welded tube having a weld seam running along a long axis of the tube and the tube is arranged in the assembled heat exchanger such that the tube weld seam is located at the ~~upper most~~ uppermost position of the tube cross section when the tube is in operation.

18. (currently amended) A steam power heat exchanger system, comprising:
a heat source;
a boiler connected to the heat source that intakes a liquid working fluid and heats the fluid to generate a steam flow;
a steam turbine connected to the boiler that expands the steam flow; and
a condenser that condenses the expanded steam flow into the liquid working fluid,
wherein the condenser comprises:

a plurality of heat exchanger tubes having a weld seam running along a long axis of the tube arranged in the assembled condenser such that the tube weld seam is located at an upper most position of the tube cross section when the tubes are in operation, the heat exchanger tubes further having an outside surface and an inside surface, the inside surface comprising an uppermost portion that encompasses an uppermost position of the tube when the tube is oriented for operation, and a non-uppermost portion located remote from the uppermost portion, that route a cooling medium along the inside surface of the tube wherein:

a first layer is arranged on the outside surface of the tube for reducing an adhesion of the steam flow ~~to the tube outer surface,~~

a second toxically acting layer is arranged on a the non-uppermost portion of the inside surface of the tube, but not arranged on the uppermost portion of the inside surface of the tube, wherein the toxically acting layer reduces formation and growth of organic substances on the non-uppermost portion of the tube inner surface through a toxic effect on organic substances, ~~and wherein the portion of the inside surface of the tube is located remote from the weld seam; and~~

a steam flow routing configured to route the steam flow upon the outside surface of the heat exchanger tube.

19. (cancelled)

20. (previously presented) The second toxically acting layer as claimed in claim 12, wherein the toxically acting layer comprises an organic silicate network.

21. (currently amended) The heat exchanger as claimed in claim 17, wherein the non-uppermost portion of the inside surface of the tube starts at the tube's three o'clock position and ends at the tube's nine o'clock position.

22. (currently amended) The steam power heat exchanger system as claimed in claim 18, wherein the non-uppermost portion of the inside surface of the tube starts at the tube's three o'clock position and ends at the tube's nine o'clock position.

23. (previously presented) The heat exchanger as claimed in claim 16, wherein the second toxically acting layer material comprises an organic silicate network.

24. (previously presented) The steam power heat exchanger system as claimed in claim 18, wherein the second toxically acting layer material comprises an organic silicate network.